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FILE 'HOME' ENTERED AT 15:45:56 ON 15 JAN 2002

=> file reg

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.15 | 0.15 |

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:46:08 ON 15 JAN 2002
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STRUCTURE FILE UPDATES: 14 JAN 2002 HIGHEST RN 383122-99-4
DICTIONARY FILE UPDATES: 14 JAN 2002 HIGHEST RN 383122-99-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e sildenafile/cn
E1 1 SILCRON G 900/CN
E2 1 SILDATE/CN
E3 1 --> SILDENAFIL/CN
E4 1 SILDENAFIL CITRATE/CN
E5 1 SILDEX/CN
E6 1 SILDEX H 121/CN
E7 1 SILDEX H 32/CN
E8 1 SILDEX H 51/CN
E9 1 SILDEX H 52/CN
E10 1 SILDEX L 51/CN
E11 1 SILECE/CN
E12 1 SILECTRON/CN

=> s e3,e4
1 SILDENAFIL/CN
1 "SILDENAFIL CITRATE"/CN
L1 2 (SILDENAFIL/CN OR "SILDENAFIL CITRATE"/CN)

=> d l1

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 171599-83-0 REGISTRY
CN Piperazine, 1-[[3-(4,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methyl-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-[[3-(6,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methylpiperazine, 2-hydroxy-1,2,3-propanetricarboxylate (1:1)
CN sildenafil citrate

| | | |
|---------------------|---------------|------------------|
| FULL ESTIMATED COST | ENTRY
9.90 | SESSION
10.05 |
|---------------------|---------------|------------------|

=> file reg

COST IN U.S. DOLLARS

| | |
|---------------|------------------|
| SINCE FILE | TOTAL |
| ENTRY
9.90 | SESSION
10.05 |

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:48:22 ON 15 JAN 2002
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STRUCTURE FILE UPDATES: 14 JAN 2002 HIGHEST RN 383122-99-4
DICTIONARY FILE UPDATES: 14 JAN 2002 HIGHEST RN 383122-99-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e sildenafile/cn
E1 1 SILCRON G 900/CN
E2 1 SILDATE/CN
E3 1 --> SILDENAFIL/CN
E4 1 SILDENAFIL CITRATE/CN
E5 1 SILDEX/CN
E6 1 SILDEX H 121/CN
E7 1 SILDEX H 32/CN
E8 1 SILDEX H 51/CN
E9 1 SILDEX H 52/CN
E10 1 SILDEX L 51/CN
E11 1 SILECE/CN
E12 1 SILECTRON/CN

=> s e3
L2 1 SILDENAFIL/CN

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 139755-83-2 REGISTRY
CN Piperazine, 1-[3-(4,7-dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX
NAME)

OTHER CA INDEX NAMES:

CN 1H-Pyrazolo[4,3-d]pyrimidine, piperazine deriv.

OTHER NAMES:

CN Sildenafil

FS 3D CONCORD

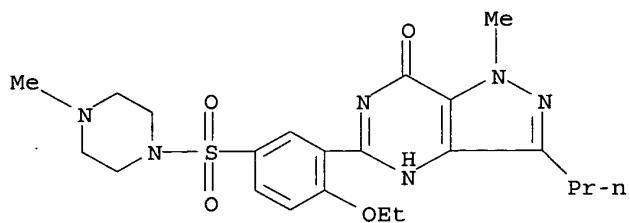
MF C22 H30 N6 O4 S

CI COM

SR CA

LC STN Files: ADISINSIGHT, ADISNEWS, ANABSTR, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CIN,
CSCHEM, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE,
MRCK*, PHAR, PROMT, SYNTHLINE, TOXCENTER, TOXLIT, USAN, USPATFULL, VETU

(*File contains numerically searchable property data)
Other Sources: WHO



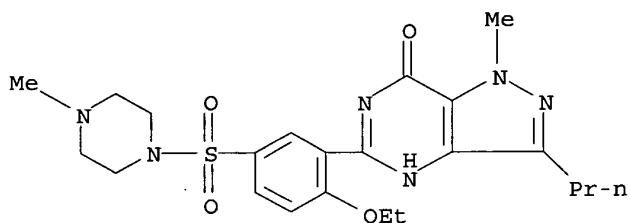
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

236 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
241 REFERENCES IN FILE CAPLUS (1967 TO DATE)

CN 1092480-10
CN Viagra
MF C22 H30 N6 O4 S . C6 H8 O7
CI COM
SR CAS Registry Services
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS,
BIOSIS, CA, CAPLUS, CBNB, CEN, CHEMCATS, CIN, DIOGENES, DRUGPAT,
DRUGUPDATES, IPA, MRCK*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*,
SYNTHLINE, TOXCENTER, TOXLIT, USAN, USPATFULL
(*File contains numerically searchable property data)

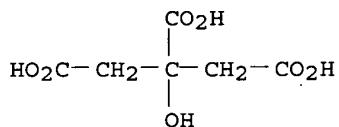
CM 1

CRN 139755-83-2
CMF C22 H30 N6 O4 S

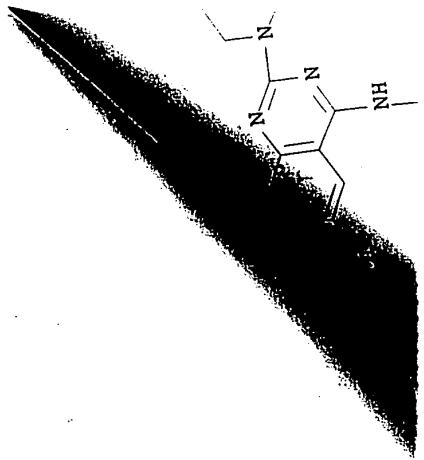
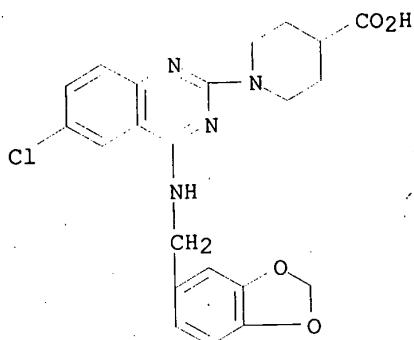


CM 2

CRN 77-92-9
CMF C6 H8 O7



146 REFERENCES IN FILE CA (1967 TO DATE)
146 REFERENCES IN FILE CAPLUS (1967 TO DATE)



● Na

L46 ANSWER 23 OF 63 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:303030 CAPLUS

DOCUMENT NUMBER: 126:282836

TITLE: Chloroquinazoline derivative compositions with improved bioavailability

INVENTOR(S): Kato, Akyoshi; Yoshioka, Takako; Yamakawa, Ichiro;

Ando, Eishin

PATENT ASSIGNEE(S): Eisai Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

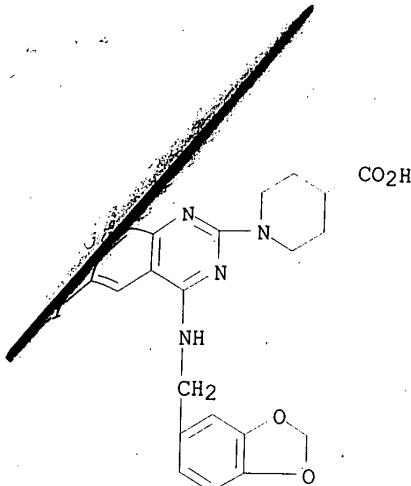
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 09059159 | A2 | 19970304 | JP 1995-216329 | 19950824 |
| | | | JP 1995-216329 | 19950824 |

PRIORITY APPLN. INFO.: AB The title compns. are manufd. by dissolving 2-(4-carboxypiperidino)-4-(3,4-methylenedioxybenzyl)amino-6-chloroquinazoline Na salt (I) and high-mol. wt. substances in EtOH (and H₂O), then removing the solvent(s). Granules contg. I and high-mol. wt. substances are also claimed. I is useful for treatment of chronic heart failure and pulmonary hypertension (no data). Hydroxypropylcellulose acetate phthalate (5 g) was mixed with 1 g I in aq. EtOH, then evapd. to give a compn., which showed better solv. in artificial intestinal juice.

IT 150452-19-0 RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (6-chloroquinazoline deriv. compns. with improved bioavailability for treatment of heart failure and pulmonary hypertension)

RN 150452-19-0 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[4-[(1,3-benzodioxol-5-ylmethyl)amino]-6-chloro-2-quinazolinyl]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L46 ANSWER 24 OF 63 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1996:702723 CAPLUS

DOCUMENT NUMBER: 126:14503

TITLE: A selective type V phosphodiesterase inhibitor, E4021, protects [against] the development of right ventricular overload and medial thickening of pulmonary arteries in a rat model of pulmonary hypertension

AUTHOR(S): Takahashi, Takashi; Kanda, Tsugiyasu; Inoue, Masahiro; Suzuki, Tadashi; Kobayashi, Isao; Kodama, Kohtarou; Nagai, Ryozo

CORPORATE SOURCE: Second Department Internal Medicine, Gunma University School medicine, Maebashi, 371, Japan

SOURCE: Life Sciences (1996), 59(23), PL371-PL377
 CODEN: LIFSAK, ISSN: 0024-3205

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The effects of oral administration of E4021, a type V phosphodiesterase inhibitor (10, 30, and 100 mg/kg/day), on development of monocrotaline-induced right ventricular overload and medial thickening of pulmonary arteries were studied in rats. Right ventricular systolic pressure, the ratio right/left ventricular mass, right ventricular wall thickness, right ventricular myocardial fiber diam., and the medial thickness and smooth muscle area in pulmonary arteries were less after 28 days in rats that received E4021 at 30 and 100 mg/kg/day than in controls given monocrotaline only. Myofiber diam., medial thickness, and smooth muscle area were lower in rats treated with E4021 at 100 mg/kg/day than in those receiving 30 mg/kg/day. E4021 at 100 mg/kg/day protected against the development of right ventricular overload and medial thickening of pulmonary arteries.

IT 150452-19-0, E 4021

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(heart overload and pulmonary hypertension inhibition by)

RN 150452-19-0 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[4-[(1,3-benzodioxol-5-ylmethyl)amino]-6-chloro-2-quinazolinyl]-, monosodium salt (9CI) (CA INDEX NAME)

